Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/670,408	AI, XIAOLAN		
	Examiner	Art Unit		
	David D. Le	3681		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community (GHTS). This application is s	n this application. If not includunication will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>amendment after Final</u>	al dated 25 June 2007.			
2. X The allowed claim(s) is/are 1-6,10,11,13,15,16,18,19 and 2	<u>21</u> .			
 3. ☐ Acknowledgment is made of a claim for foreign priority ura) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the deposit attached Examiner's comment regarding REQUIREMENT For the composition of the composition of the deposition of the composition of the compositi	been received in Application been received in Application cuments have been received of this communication to file ENT of this application. Sitted. Note the attached EXA is reason(s) why the oath or the submitted. Son's Patent Drawing Review Amendment / Comment or the header according to 37 CF sit of BIOLOGICAL MATER.	on No d in this national stage applica a reply complying with the rec AMINER'S AMENDMENT or Not declaration is deficient. (PTO-948) attached in the Office action of the drawings in the front (not the R 1.121(d). ERIAL must be submitted. N	quirements OTICE OF	
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./I 7. ☑ Examiner's /	formal Patent Application Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allo	wance	

DETAILED ACTION

1. This is the seventh Office action on the merits of Application No. 10/670,408, filed on 25 September 2003. Claims 1-6, 10, 11, 13, 15, 16, 18, 19 and 21 are pending.

Documents

- 2. The following documents have been received and filed as part of the patent application:
 - Information Disclosure Statement, received on 12/29/03
 - Information Disclosure Statement, received on 03/19/04

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 1:

• Line 10, a period --.-- has been inserted at the end of the equation.

Claim 4:

• Line 4, a period --.-- has been inserted at the end of the equation.

Allowable Subject Matter

- 4. Claims 1-6, 10, 11, 13, 15, 16, 18, 19 and 21 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Claim 1:

The prior art of record fails to show or render obvious a wedge loading mechanism for a planetary traction drive comprising a roller, two raceways, a convergent wedge, and a flexible mounting, as recited in claim 1; specifically, wherein the flexible mounting includes a preselected stiffness ratio and a maximum available friction coefficient, which are characterized by the equation as recited in claim 1.

Claim 10:

The prior art of record fails to show or render obvious a method of transmitting rotational motion and torque within a traction drive device, as recited in claim 10; specifically, wherein the method includes the step of providing a flexibly mounted wedge loading mechanism having a predetermined stiffness ratio K_S/K_R that is a function of a wedge angle for different operating friction coefficients, which is characterized by the equation as recited in claim 10.

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Claim 11:

The prior art of record fails to show or render obvious a wedge loading mechanism for a planetary traction drive comprising a roller, two raceways, a convergent wedge, and a flexible mounting with a predetermined travel range that limits the operating friction coefficient at or close to a maximum available friction coefficient, as recited in claim 11; specifically, wherein the flexible mounting includes a predetermined stiffness ratio K_S/K_R , which is characterized by the equation as recited in claim 11.

Claim 13:

The prior art of record fails to show or render obvious a wedge loading mechanism for a planetary traction drive comprising a roller, two raceways, a convergent wedge, and a flexible mounting, as recited in claim 13; specifically, wherein the flexible mounting includes a predetermined stiffness ratio K_S/K_R , which is characterized by the equation as recited in claim 13.

Claim 16:

The prior art of record fails to show or render obvious a wedge loading mechanism for a planetary traction drive comprising a roller, two raceways, a convergent wedge, and a flexible mounting, as recited in claim 16; specifically, wherein the flexible mounting includes a predetermined stiffness ratio K_S/K_R , which is characterized by the equation as recited in claim 16.

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Claim 19:

The prior art of record fails to show or render obvious a method of transmitting rotational motion and torque within a traction drive device, as recited in claim 19; specifically, wherein the method includes the step of providing a flexibly mounted wedge loading mechanism having a predetermined stiffness ratio K_S/K_R that is characterized by the equation as recited in claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Le whose telephone number is 571-272-7092. The examiner can normally be reached on Mon-Fri (0700-1530).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on 571-272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David D. Le

Primary Examiner

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06/29/2007